

**AMENDMENTS TO THE CLAIMS**

1-26. (Cancelled)

27. **(Currently Amended)** A computer program product, comprising:

a data structure, wherein

[[said]] **the** data structure comprises an order processing system,

[[said]] **the** order processing system comprises a complex object,

[[said]] **the** complex object comprises a service profile,

the service profile represents a complex asset, and

[[said]] **the** complex asset is associated with an account;

a data manager configured to:

receive at least a portion of the service profile from an external server via an  
information network, and

generate a business object based on the portion of the service profile;

a transformation engine configured to generate at least a portion of the complex object  
based on the business object, wherein the complex object is stored in an asset  
table;

an order table representing instructions to change **[[the]]** products and services provided  
to a customer, wherein

the order table comprises one of

a **first** value to indicate that an order item has been added,

a **second** value to indicate that the order item has been deleted, and

a **third** value to indicate that the order item has been updated;

a quote table representing offers to change the products and services provided to **[[a]] the**  
customer, wherein

a quote is converted to an order when the customer accepts the quote; and

~~computer-readable~~ **non-transitory computer-readable** storage media, wherein **[[said]]**  
**the** data structure, **[[said]] the** data manager, and **[[said]] the** transformation  
engine are encoded in ~~said-computer-readable~~ **the non-transitory computer-**  
**readable** storage media.

28. (Currently Amended) The computer program product of Claim 27, wherein the asset table comprises a plurality of:

- an asset price of the complex asset adjusted to take into account discounts;
- a base price of the complex asset;
- a first unique identifier of the complex asset;
- [[an]] a first identifier of [[an]] the account that is billed for the complex asset;
- [[an]] a second identifier of [[an]] the account at which the complex asset is provided;
- [[an]] a third identifier of an agreement under which the complex asset is provided;
- a status of the complex asset;
- a first date that service started;
- a second date that service ended;
- a price description;
- [[an]] a fourth identifier of a metering asset with which the complex asset is associated;
- and
- an absolute quantity of an item given a position of the item in an asset hierarchy.

29. (Currently Amended) The computer program product of Claim 28, wherein an action code is set to one of:

- a fourth value to indicate that the complex asset is active;
- a fifth value to indicate that the complex asset has been deleted; and
- a sixth value to indicate that the complex asset has been suspended.

30. (Currently Amended) The computer program product of Claim 27, wherein at least a portion of the information in the asset table is transferred to [[an]] the order table when a new quote is created.

31. (Currently Amended) The computer program product of Claim 27, wherein at least a portion of the information in [[an]] the order table is transferred to the asset table when [[an]] the order is provisioned.

32. (Currently Amended) The computer program product of Claim 27, wherein the quote table comprises a plurality of:

- [[an]] a fifth identifier of an agreement under which the quote was made;
- [[an]] a sixth identifier of a metering asset with which [[this]] the complex asset is associated;
- [[an]] a first absolute quantity of an item given a position of the item in an asset hierarchy;
- [[an]] a seventh identifier of [[an]] the account that is billed for the complex asset;
- an eighth identifier of [[an]] the account at which the complex asset is provided;
- [[an]] a first action code to indicate whether there is a change to the specified service item;
- a first telephone number corresponding to ~~these items~~ the specified service item; and
- a second unique identifier of the complex asset.

33. (Currently Amended) The computer program product of Claim 32, wherein the action code ~~required during the Delta Process~~ is set to one of:

- a seventh value to indicate that a quote item was added;
- [[a]] an eighth value to indicate that the quote item was deleted; and
- a ninth value to indicate that the quote item was updated.

34. (Cancelled)

35. (Currently Amended) The computer program product of Claim 32, wherein multiple service quotes are associated with [[a]] the customer.

36. (Currently Amended) The computer program product of Claim 32, wherein multiple service quotes are associated with [[a]] the service item.

37. (Currently Amended) The computer program product of Claim 32, wherein a workflow changes the service quote status to “Order Placed” once [[a]] the quote is successfully converted to [[an]] the order.

38. (Currently Amended) The computer program product of Claim 27, wherein the order table comprises a plurality of:

- [[an]] a ninth identifier of an agreement under which the order was made;
- [[an]] a tenth identifier of a metering asset with which the complex asset is associated;
- [[an]] a second absolute quantity of an item given a position of the item in an asset hierarchy;
- an eleventh identifier of [[an]] the account that is billed for the complex asset;
- [[an]] a twelfth identifier of [[an]] the account at which the complex asset is provided;
- [[an]] a second action code to indicate whether there is a change to the specified service item;
- a third unique identifier of the complex asset;
- a second telephone number corresponding to ~~these items~~ the specified service item;
- a date and time at which the order was completed; and
- a status field for items in the order.

39. (Cancelled)

40. (Currently Amended) The data structure of Claim 38, wherein the status field is set to one of:

- a tenth value to indicate that an order item is deleted;
- [[a]] an eleventh value to indicate that the order item is Active; and
- a twelfth value to indicate that the order item is Suspended.

41. (Currently Amended) The computer program product of Claim 27, wherein the complex asset represents a product with a hierarchy of sub-products.

42. (Currently Amended) The computer program product of Claim 27, further comprising:

- a product integration table comprising:
- a track as asset field to indicate whether a product should be converted to [[an]] the complex asset by an order-to-asset workflow process;
- a metering point field to indicate whether a product requires a metering point;
- a price type field; and

a transfer field to indicate whether the complex asset can be moved when **[[a]] the** customer changes address.

43. (Currently Amended) The computer program product of Claim 42, wherein the price type is one of:

a thirteenth value to indicate that price is a one-time charge;

a fourteenth value to indicate that the price is recurring; and

a fifteenth value to indicate that the price is based on usage.

44. (Previously Presented) The computer program product of Claim 42, wherein an order type is set to indicate a service order and a status of the order is changed to indicate the order is new.

45. (Previously Presented) The computer program product of Claim 27, wherein a status of each order line item is set to indicate that the order item is new when the action field is non-null and the status of each order line item is set to indicate that the order item is null when the action field is null.

46. (Currently Amended) The computer program product of Claim 32, further comprising:

a quote header table comprising:

**[[an]] a thirteenth** identifier of an agreement under which the quote was made;

**[[an]] a fourteenth** identifier of **[[an]] the** account to be billed for the complex asset;

and

**[[an]] a fifteenth** identifier of **[[an]] the** account at which the complex asset will be provided.

47. (Currently Amended) The computer program product of Claim 38, further comprising:

an order header table comprising:

**[[an]] a sixteenth** identifier of an agreement under which the order was made;

**[[an]] a seventeenth** identifier of **[[an]] the** account that will be billed for the complex asset; and

an eighteenth identifier of **[[an]] the** account at which the complex asset will be provided.

48. **(Currently Amended)** The computer program product of Claim 27, further comprising:  
a quote header table comprising billing and service account information; and  
an order header table comprising billing and service account information,  
wherein at least a portion of the information in the quote header table is transferred to the  
order header table when the quote is converted to **[[an]] the** order.
49. **(Currently Amended)** The computer program product of Claim 32, wherein  
at least a portion of the information in the quote table is transferred to **[[an]] the** order  
table when **[[a]] the** quote is converted to **[[an]] the** order; and  
a user can supply an external provision workflow to perform a function associated with  
maintaining **[[a]] the** quote table when **[[an]] the** order is provisioned.
50. **(Currently Amended)** The computer program product of Claim 27, wherein the asset table  
comprises an asset price adjusted to take into account discounts and a base price of the **complex**  
asset.